92-170

ORIGINAL FILE

BEFORE THE

Federal Communications Commission

WASHINGTON, D. C. 20554

In re Applications of	)	
	)	
LIBERTY UNIVERSITY, INC.	)	File No. BPED-911206MB
	)	
VISION COMMUNICATIONS, INC.	)	File No. BMPED-920414IF
	)	
For Construction Permits for	)	
New and Modified Noncommercial	)	
FM Facilities	)	

RECEIVED
SEP 28 1992
FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

To: Administrative Law Judge Edward Luton

PETITION FOR LEAVE TO AMEND

Vision Communications, Inc. ("Vision"), by its president, hereby petitions for leave to amend its above-captioned application. Good cause for this amendment is shown as follows:

Through its amendment Vision seeks to increase its power, but, at the same time, agrees to accept third-adjacent channel interference that would be caused by Liberty University, Inc.'s ("Liberty's") application as amended September 1, 1992, to change frequencies from Channel 210A to Channel 215A. As indicated in Liberty's letter of September 15, 1992, Liberty supports Vision's waiver request on the basis of the waiver rationale set forth in Liberty's September 1, 1992 petition for leave to amend (at pp. 5-6).

As noted in the Mass Media Bureau's Comments, filed September 24, 1992, acceptance of Vision's amendment will facilitate resolution of this hearing proceeding through elimination of the mutual exclusivity of the Vision and Liberty applications. This will conserve

the Commission's and the parties' resources and serve the public interest by permitting both the establishment of a new NCE-FM facility at Lynchburg and authorization of desired changes to Vision's unbuilt WRXT facility at Roanoke. Further, Vision has acted diligently to resolve the mutual exclusivity of its application with Liberty through submission of its amendment within six weeks after release of the Hearing Designation Order ("HDO"), DA 92-1018, on August 3, 1992.[1] Moreover, acceptance of Vision's amendment will not prejudice any party, require the addition of any new parties or issues, or otherwise disrupt the proceeding. Indeed, acceptance will facilitate resolution of the proceeding. On these bases, it is requested that Vision's amendment be accepted.

Vision is serving a copy of this amendment on the Chief, Audio Services Division. This will facilitate speedy review of Vision's revised environmental statement and, hopefully, lead to a recommendation by the Bureau that the environmental issue still outstanding against Vision be deleted. All other outstanding issues will be resolved through acceptance of Vision's and Liberty's amendments[2] and grant of Liberty's August 19, 1992 motion for summary decision on the air-hazard issue it faces.

WHEREFORE, These matters considered, it is respectfully requested that: (1) Liberty's September 1, 1992 amendment be ACCEPTED; (2) Vision's amendment, filed today, be ACCEPTED; (3) Liberty's August 19, 1992 motion for summary decision be GRANTED;

---

[1] The amendment tendered herewith originally was filed (by Liberty's counsel) on September 15, 1992. The only difference between today's filing and that of September 15 is the submission of an accompanying petition for leave to amend executed by Vision's president.

[2] On September 11, 1992, the Bureau supported acceptance of Liberty's September 1, 1992 amendment and on September 24, 1992, the Bureau supported acceptance of Vision's instant amendment contingent upon submission of an acceptable petition for leave to amend.

(4) Vision's environmental statement, included in today's amendment, be ACCEPTED such that the environmental issue outstanding against Vision can be deleted; (5) the applications of *Vision and Liberty* be GRANTED; and (6) this proceeding by TERMINATED.

Respectfully submitted,

VISION COMMUNICATIONS, INC.

By _____
Worth M. Miller, President

2023 Westvan Drive, N.E.
Roanoke, Virginia 24012

For filing September 28, 1992

CERTIFICATE OF SERVICE

I, Pamela R. Payne, hereby certify that on this 28th day of September, 1992, copies of the foregoing **PETITION FOR LEAVE TO AMEND** were hand delivered or mailed, first class, postage prepaid, to the following:

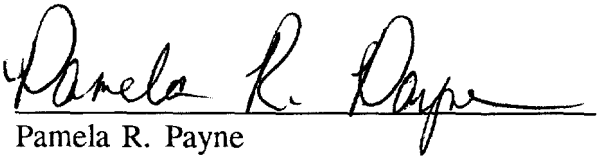
Administrative Law Judge Edward Luton *
Federal Communications Commission
2000 L Street, N.W., Room 225
Washington, D.C. 20554

Larry A. Miller, Esquire *
Mass Media Bureau
Federal Communications Commission
2025 M Street, N.W., Suite 7212
Washington, D.C. 20554

Larry D. Eads, Esquire *
Chief, Audio Services Division
Federal Communications Commission
1919 M Street, N.W., Room 302
Washington, D.C. 20554

Chief, Data Management Staff *
Audio Services Division
Federal Communications Commission
1919 M Street, N.W., Room 350
Washington, D.C. 20554

Harry C. Martin, Esquire
Reddy, Begley & Martin
1001 22nd Street, N.W.
Suite 350
Washington, D.C. 20037



Pamela R. Payne

* HAND DELIVERED

Federal Communications Commission
Washington, D. C. 20554

FCC 340

Approved by OMB
3060-0034
Expires 11/30/94
See Page 23 for information regarding public burden estimate

APPLICATION FOR CONSTRUCTION PERMIT FOR NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

(Carefully read instructions before filing form) Return only form to FCC

For Commission Use Only
File No.

Section I - GENERAL INFORMATION

1. Name of Applicant		
Vision Communications, Inc.		
Street Address or P.O. Box		
2023 Wesvan Dr. NE		
City Roanoke	State Va	ZIP Code 24012
Telephone No. (Include Area Code) 703-977-1710		

Send notices and communications to the following person at the address below:		
Name Worth M. Miller		
Street Address or P.O. Box 2023 Wesvan Dr. NE		
City Roanoke	State Va	ZIP Code 24012
Telephone No. (Include Area Code) 703-977-1710		

2. This application is for: ☐ AM ☒ FM ☐ TV

(a) Channel No. or Frequency	(b) Principal Community	City	State
212		Roanoke	VA

(c) Check one of the following boxes:

☐ Application for **NEW** station

☐ **MAJOR** change in licensed facilities; call sign: .....

☐ **MINOR** change in licensed facilities; call sign: .....

☐ **MAJOR** modification of construction permit; call sign: .....

File No. of construction permit: .....

☐ **MINOR** modification of construction permit; call sign: .....

File No. of construction permit: .....

☒ **AMENDMENT** to pending application; application file number: BPED-920414IF

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Section I and those other portions of the form that contain the amended information.

3. Is this application mutually exclusive with a renewal application? ☐ Yes ☒ No

If Yes, state:	Call letters	Community of License	
		City	State

SECTION VI - EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

1. Does the applicant propose to employ five or more full-time employees? On File ☐ Yes ☐ No

   If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC 396-A).

SECTION VII - CERTIFICATION

1. Has or will the applicant comply with the public notice requirements of 47 C.F.R. Section 73.3580? ☐ Yes ☐ No
   On File
2. By checking Yes, the applicant certifies that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits that includes FCC benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. Section 1.2002(b). ☒ Yes ☐ No

The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. *(See Section 304 of the Communications Act of 1934, as amended.)*

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

In accordance with 47 C.F.R. Section 1.65, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

I certify that the statements in this application are true and correct to the best of my knowledge and belief, and are made in good faith.

Name of Applicant	Title
Vision Communications, Inc.	President
Signature	Date
	September 25, 1992

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether grant of this application is in the public interest. In reaching that determination, or for law enforcement purposes, it may be necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided, processing of the application may be delayed or the application may be returned without action pursuant to the Commission's rules. Your response is required to obtain the requested authority.

Public reporting burden for this collection of information is estimated to vary from 78 to 302 hours 20 minutes with an average of 171 hours 36 minutes per response. These estimates includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Information Resources Branch, Room 416, Paperwork Reduction Project, Washington, D.C. 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-0034), Washington, D.C. 20503.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

Section V-B - FM BROADCAST ENGINEERING DATA	FOR COMMISSION USE ONLY File No. _____ ASB Referral Date _____ Referred by _____

Name of Applicant

Vision Communications, Inc.

Call letters *(if issued)*	Is this application being filed in response to a window? ☐ Yes ☒ No
WRXT	If Yes, specify closing date: _____

Purpose of Application: *(check appropriate box(es))*

- ☐ Construct a new (main) facility
- ☐ Construct a new auxiliary facility
- ☒ Modify existing construction permit for main facility
- ☐ Modify existing construction permit for auxiliary facility
- ☐ Modify licensed main facility
- ☐ Modify licensed auxiliary facility

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- ☒ Antenna supporting-structure height
- ☒ Effective radiated power
- ☒ Antenna height above average terrain
- ☐ Frequency
- ☒ Antenna location
- ☐ Class
- ☐ Main Studio location
- ☐ Other *(Summarize briefly)*

File Number(s) BPED-920414IF

1. Allocation:

Channel No.	Principal community to be served:		
	City	County	State
212	Roanoke	Roanoke	VA

Class *(check only one box below)*

☐ A ☐ B1 ☐ B ☐ C3

☒ C2 ☐ C1 ☐ C ☐ D

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

The site is 5 kilometers east of Montvale on Taylors Mountain in Bedford County, Virginia.

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	37 °	23 '	09 "	Longitude	79 °	40 '	10 "

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☐ Yes ☒ No

If Yes, give call letter(s) or file number(s) or both. _____

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

_____

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates? ☐ Yes ☒ No
If Yes, list old coordinates.

Latitude ° ' "	Longitude ° ' "

5. Has the FAA been notified of the proposed construction? ☒ Yes ☐ No
If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available. Air Space Study 92-AEA-0757-OE Exhibit No.

Date April 3, 1992 Office where filed Jamaica

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

	Landing Area	Distance (km)	Bearing (degrees True)
(a)	none		
(b)			

7. (a) Elevation: *(to the nearest meter)*

(1) of site above mean sea level; 701 meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 47 meters

(3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] 748 meters

(b) Height of radiation center: *(to the nearest meter)* H = Horizontal; V = Vertical

(1) above ground 44 meters (H)

44 meters (V)

(2) above mean sea level [(aX1) + (bX1)] 745 meters (H)

745 meters (V)

(3) above average terrain 339 meters (H)

339 meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(bX3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator. Exhibit No. Fig. 1

9. Effective Radiated Power:
(a) ERP in the horizontal plane 5.5 kw (H*) 5.5 kw (V*)

(b) Is beam tilt proposed? ☐ Yes ☒ No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field. Exhibit No.

_____ kw (H*) _____ kw (V*)

*Polarization

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 3)

10. Is a directional antenna proposed? [X] Yes [ ] No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of horizontally and vertically polarized radiated components in terms of relative field. Exhibit No. Eng Exhib

11. Will the main studio be located within the 70 dBu or 3.16 mV/m contour? [ ] Yes [X] No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125. Exhibit No.
This application is for a facility on channel 212.

12. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast *(except citizens band or amateur)* radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference? [X] Yes [ ] No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. *(See 47 C.F.R. Sections 73.315(b), 73.316(d) and 73.318.)* Exhibit No. Narrative

13. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction D for Section V. Further, the map must clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers. Exhibit No. Fig. 2

14. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers: Exhibit No. Fig. 3

(a) the proposed transmitter location, and the radials along with profile graphs have been prepared;

(b) the 1 mV/m predicted contour and, for noncommercial educational applicants applying on a commercial channel, the 3.16 mV/m contour; and

(c) the legal boundaries of the principal community to be served.

15. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 5210 sq. km. Population 398,537

16. Attach as an Exhibit a map *(Sectional Aeronautical charts where obtainable)* showing the present and proposed 1 mV/m (60 dbu) contours. Exhibit No. Fig. 3

Enter the following from Exhibit above: Gain Area 1115 sq km sq. mi.
Loss Area 486 sq km sq. mi.

Percent change (gain area plus loss area as percentage of present area) 34.9 %.
If 50% or more this constitutes a major change. Indicate in question 2(c), Section I, accordingly.

17. For an application involving an auxiliary facility only, attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license. See 47 C.F.R. Section 73.1675. (File No.:_____)

18. Terrain and coverage data *(to be calculated in accordance with 47 C.F.R. Section 73.313).*

Source of terrain data: *(check only one box below)*

[X] Linearly interpolated 30-second database [ ] 7.5 minute topographic map

(Source: NGDC)

[ ] Other *(briefly summarize)*

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances to the 1 mV/m contour (kilometers)
0		
45	SEE PAGES 8 AND 9 IN THE ENGINEERING EXHIBIT.	
90		
135		
180		
225		
270		
315		

Allocation Studies

(See Subpart C of 47 C.F.R. Part 73)

19. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico? [ ] Yes [X] No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band.

Exhibit No.

20. Is the proposed antenna location within 320 kilometers of the common border between the United States and Canada? ☐ Yes ☒ No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Working Agreement for Allocation of FM Broadcasting Stations on Channels 201-300 under The Canada-United States FM Agreement of 1947. Exhibit No.

21. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz), attach as an Exhibit a complete allocation study to establish the lack of prohibited overlap of contours with other U.S. stations. The allocation study should include the following: Exhibit No. Figs 4&5

(a) The normally protected interference-free and the interfering contours for the proposed operation along all azimuths.
(b) Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
(c) Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received.
(d) Normally protected and interfering contours over pertinent arcs, of all other proposals and existing stations, which require study to show the absence of objectionable interference.
(e) Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities.
(f) When necessary to show more detail, an additional allocation study will be attached utilizing a map with a larger scale to clearly show interference or absence thereof.
(g) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire Exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
(h) The name of the map(s) used in the Exhibit(s).

22. With regard to any stations separated by 53 or 54 channels (10.6 or 10.8 MHz) attach as an Exhibit information required in 1/ *(separation requirements involving intermediate frequency (i.f.) interference)*. Exhibit No. Page 6&7

23.(a) Is the proposed operation on Channel 218, 219, or 220? ☐ Yes ☒ No

(b) If the answer to (a) is yes, does the proposed operation satisfy the requirements of 47 C.F.R. Section 73.207? ☐ Yes ☐ No

(c) If the answer to (b) is yes, attach as an Exhibit information required in 1/ regarding separation requirements with respect to stations on Channels 221, 222 and 223. Exhibit No.

(d) If the answer to (b) is no, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose. Exhibit No.

1/ A showing that the proposed operation meets the minimum distance separation requirements. Include existing stations, proposed stations, and cities which appear in the Table of Allotments; the location and geographic coordinates of each antenna, proposed antenna or reference point, as appropriate; and distance to each from proposed antenna location.

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 6)

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.

(1) Protected and interfering contours, in all directions (360), for the proposed operation.
(2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as transmitter location.
(3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
(4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
(5) The official title(s) of the map(s) used in the exhibits(s).

24. Is the proposed station for a channel in the range from Channel 201 to 220 (88.1 through 91.9 MHz) and the proposed antenna location within the distance to an affected TV Channel 6 station(s) as defined in 47 C.F.R. Section 73.525?

[X] Yes [ ] No

If Yes, attach as an Exhibit either a TV Channel 6 agreement letter dated and signed by both parties or a map and an engineering statement with calculations demonstrating compliance with 47 C.F.R. Section 73.525 for each affected TV Channel 6 station.

Exhibit No. Eng Exhibit

25. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1-107.9 MHz)?

[ ] Yes [ ] No

If Yes, attach as an Exhibit information required in 1/. *(Except for Class D (secondary) proposals.)*

Exhibit No.

26. Environmental Statement *(See 47 C.F.R. Section 1.1301 et seq.)*

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact?

[ ] Yes [X] No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.

Exhibit No.

If No, explain briefly why not. See the Narrative in the Engineering Exhibit.

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name *(Typed or Printed)*	Relationship to Applicant *(e.g., Consulting Engineer)*
William A. Culpepper	Technical Consultant
Signature William A Culpepper	Address *(Include ZIP Code)* 900 Jefferson Drive Charlotte, NC 28270
Date September 9, 1992	Telephone No. *(Include Area Code)* (704) 365-9995

VISION COMMUNICATIONS, INCORPORATED

WRXT

ROANOKE, VIRGINIA

APPLICATION FOR NEW NON-COMMERCIAL FM BROADCAST STATION

AMENDMENT TO BPED-920414IF

ENGINEERING EXHIBIT

SEPTEMBER 1992

William Culpepper & Associates, Inc.
900 Jefferson Drive
Charlotte, North Carolina 28270

WRXT - ROANOKE, VIRGINIA

TABLE OF CONTENTS

VISION COMMUNICATIONS, INC.

WRXT

ROANOKE, VIRGINIA

DECLARATION

I declare, under penalty of perjury, that I have prepared the attached Exhibit for Vision Communications, Incorporated, and that all of the facts therein, except for facts of which the Federal Communications Commission may take official notice, are true to the best of my knowledge and belief; and that I am a Registered Professional Engineer in the States of Alabama, Georgia and North Carolina.

Executed on September 9, 1992.

William A. Culpepper
900 Jefferson Drive
Charlotte, North Carolina 28270
704-365-9995

VISION COMMUNICATIONS, INCORPORATED

ROANOKE, VIRGINIA

NARRATIVE

This Exhibit supports the attached Application of Vision Communications, Incorporated to amend its application, BPED-920414IF, for a new non-commercial FM Broadcast Station at Roanoke, Virginia. The purpose of the amendment is to increase the power, to change the directional antenna pattern and to show the change in the Liberty University (Lynchburg, Virginia) application from channel 210A to channel 215A.

The stations and allocations of concern in the reserved and non-reserved portions of the band are tabulated in the Channel Study on pages 5 and 6 of this exhibit. Non-commercial stations that required examination regarding overlap of prohibited signal strength contours are plotted in the Allocation Studies of Figures 4 and 5.

The proposed contours and the contours of WPBI shown on the allocation studies have been calculated and plotted at one degree intervals. Terrain data was extracted at one degree intervals, and the power levels were calculated by linear interpolation between the five degree points that were supplied by the directional antenna manufacturers.

This application proposes a directional antenna which is described in this exhibit. This antenna will be mounted on a structure approved by the antenna manufacturer in a manner prescribed by the manufacturer. The antenna will not be mounted on a tower with a top-mounted platform larger than the nominal cross-sectional area of the tower in the horizontal plane. No other antenna will be installed at the same level as the proposed antenna. Other information related to the antenna is included in this exhibit on pages 13 through 19.

The answer to Question 12 of Section V-B is "No" to all parts except that there is a populated area within the blanketing

contour. If any blanketing interference is reported, applicant agrees to abide by §73.318 in correcting the problem. Possible solutions to blanketing interference might include, but not be limited to, the installation of a filter in the antenna input to the offending receiver and the installation of RF chokes in the speaker and power cables of the receiver.

If interference is encountered by any other Commission licensee as a result of a grant of this application, applicant agrees to discharge its responsibilities in correcting the problem in accordance with applicable FCC Rules.

The Proposed site is not in an area described in §1.1307(a)(1) through §1.1307(a)(4); the facility will not involve a significant change in the surface features of the land, the tower will not use high-intensity white lights at night, and there is no RFR hazard to humans at ground level when evaluated in accordance with OST-65. Therefore, this proposal is excluded from environmental processing under §1.1306.

In consideration of occupational health and safety, the applicant states that it will limit the RF exposure of persons authorized to climb the tower by turning the transmitter off during the time such person is on the tower.

This application has been in conflict with the application of Liberty University, channel 210A, at Lynchburg, Virginia. Liberty has amended its application to channel 215A which reduces the interference received by the applicant. The Liberty 100 dBu contour extends 0.7 kilometer from its site. This is an area of 1.54 kilometers. As shown on the map of Figure 8, the area inside this contour is almost entirely on Candler Mountain. The population within this contour is zero, using the 1990 digital tract census data.

The proposed 60 dBu contour completely overlaps the Liberty 100 dBu contour. The total area inside the proposed 60 dBu contour is 5210 square kilometers. The area inside the interference area is 0.03 per cent of the total proposed service area.

In support of a waiver request, it is pointed out that this application does not cause interference to any other facility or proposal; it causes only third adjacent channel interference; it increases the coverage area by 14.08 per cent; it creates an area of interference that is only 0.03 per cent of the service area; and, there is no population in the interference area.

A waiver of §73.509 is hereby requested to permit the applicant to accept the above described interference. Grant of such a waiver would appear to meet the revised waiver policy concerning second and third adjacent channel interference as set forth in the Buies Creek, North Carolina case by MO&O released April 24, 1991.

VISION COMMUNICATIONS, INCORPORATED

WRXT

ROANOKE, VIRGINIA

CHANNEL 6 TELEVISION INTERFERENCE

WVVA, Bluefield, West Virginia and WTVR, Richmond, Virginia are the only channel 6 television stations that are "affected" by this application.

NBC is the only network affiliation of WVVA. NBC is also the only network affiliation of WSLS, channel 10, Roanoke, Virginia.

Figure 6 in this exhibit is a map showing the 47 dBu F(50,50) and the 68 dBu F(50,50) contours of WVVA, the 68.8 dBu F(50,10) contour of the proposed facility and the 77 dBu F(50,50) contour of WSLS. Data relating to these three contours is tabulated in this exhibit.

The overlap of the proposed 68.8 dBu contour and the WVVA 47 dBu contour lies entirely within Roanoke County, Virginia, it is outside the 74 dBu contour of WVVA, and it is encompassed by the WSLS 77 dBu contour. This is graphically illustrated in Figure 6.

Roanoke County is outside the Area of Dominant Influence of the Bluefield television market, and according to §73.525(e)(3)(iii), the number of persons in that interference area can be subtracted. Therefore this proposed facility will not produce any interference to any WVVA viewer.

An "affected" channel six television station for an FM station on channel 212 is one that is within 195 kilometers. The distance from the proposed site to WTVR is 195.0 kilometers. Figure 7 shows the WTVR 47 dBu F(50,50) contour and the proposed 68.8 dBu F(50,10) contour. There is no overlap of these contours, therefore, this proposal will not cause any interference to WTVR.

WM. CULPEPPER & ASSOCIATES. INC.

CH# 212C2 - 90.3 MHz
VISION COMMUNICATIONS, INC.
INTERFERENCE CHECKS WITH WRXT, ROANOKE, VA at N. LAT. 37 23 09 W. LNG. 79 40 10
PWR = 5.5 kW H.A.A.T. = 339 M C.O.R. = 745 M AMSL
Protected F(50-50) 60 dBu = 47.09 km
F(50-10) 40 dBu = 115.86 54 dBu = 70.28 80 dBu = 16.35 100 dBu = 4.09

CH# CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY	STATE	LICENSEE		<---		LNG.	HAAT(M)	COR(M)	FILE #
209A AP209	AP CN	80.8	108.4	218.8	129.67 km	36 28 32	5.00	1.75	17.17
Mount Airy	NC	Triad Family Network, Inc.		38.8	80.57 Mi	80 34 55	39.0	406	BPED910319MB
210A WMRL.C	CP CN	0.4	27.3	24.7	49.30 km	37 47 22	0.10	1.82	5.64
Lexington	VA	James Madison University,		204.7	30.63 Mi	79 26 11	-60.0	341	BPED900920MB
**210A AP210	AP CN	-6.6	14.3	95.3	44.60 km	37 20 56	0.10	4.15	13.98
Lynchburg	VA	Liberty University, Inc.		275.3	27.71 Mi	79 10 05	184.0	424	BPED911206MB
210A WVRU	LI CN	33.2	58.1	250.8	82.97 km	37 08 26	0.50	2.68	8.50
Radford	VA	Radford University		70.8	51.56 Mi	80 33 11	5.0	623	BLED800922AM
210A WFFC	LI CN	10.7	37.7	211.9	59.65 km	36 55 46	0.10	1.82	5.64
Ferrum	VA	Ferrum College		31.9	37.06 Mi	80 01 27	-12.0	430	BLED890201KF
211A AP211	AP CN	72.7	52.6	242.2	129.95 km	36 50 25	0.25	10.15	7.09
Ivanhoe	VA	Ivanhoe Civic League, Inc.		62.2	80.75 Mi	80 57 47	-43.0	677	911216MB
211B1 WPVA.C	CPMDCN	-4.3	-8.5	44.6	100.08 km	38 01 41	2.50	57.24	38.33
Waynesboro	VA	Positive Alternative Radio		224.6	62.19 Mi	78 52 22	300.0	721	BMPED890523IC
211C3 WNAA	LI CN	43.2	38.5	183.5	144.87 km	36 04 58	10.00	54.55	36.10
Greensboro	NC	N.C. Agricultural & Tech.		3.5	90.02 Mi	79 46 08	132.0	370	BLED850528KO
212C2 WRXT.A	AP DCN	-149.2	-156.0	0.0	0.00 km	37 23 09	2.40	102.15	40.14
Roanoke	VA	Vision Communications, Inc		180.0	0.00 Mi	79 40 10	339.0	745	BMPED920414IF
212C2 WRXT.C	CP DCN	-149.1	-150.6	261.6	8.90 km	37 22 27	2.40	110.94	43.60
Roanoke	VA	Vision Communications, Inc		81.6	5.53 Mi	79 46 08	410.0	813	BPED880801ME
FCC Comment > Engineering amendment Per Hintson 910326									
212A WCDE	LI CN	106.6	50.7	354.8	172.23 km	38 55 52	0.10	18.58	5.64
Elkins	WV	Trustees of Davis & Elkins		174.8	107.02 Mi	79 50 49	-105.0	631	BLED841214LP
213B WJYJ.A	AP DEN	82.8	84.5	64.1	206.25 km	38 11 48	38.00	76.35	51.50
Fredericksburg	VA	Christian Educational Radi		244.1	128.16 Mi	77 33 45	164.0	238	BPED850621IO
FCC Comment > APP DISMISS 3/86-RSB 5/86-DIS 9/87-REC 10/87-APP RET 880714-APP FOR REVIEW 880826									
213A WPBI.C	CP DCN	-13.1	-21.3	191.0	77.04 km	36 42 16	4.30	43.04	28.08
Martinsville	VA	Martinsville Community Wor		11.0	47.87 Mi	79 50 06	116.0	393	BPED860130MG

CH# CALL / CITY	TYPE / STATE	* IN * / LICENSEE	* OUT *	BEARING / <---	DISTANCE	LAT. / LNG.	PWR(kW) / HAAT(M)	INT(km) / COR(M)	PRO(km) / FILE #
FCC Comment > APP RET 860903-PET FOR RECON GTD 6/88-AMD 880725 & 880824 & 900405- RECLASSIFED TO CLASS A 911024									
213C3 WSNC.C Winston-Salem	CP DCN NC	66.1 Winston Salem State Univer	56.7	198.9 18.9	152.04 km 94.47 Mi	36 05 24 80 13 20	10.00 59.0	38.83 319	25.05 BPED870424MA
213A WSNC Winston-Salem	LI CN NC	96.4 Winston Salem State Univer	75.7	199.3 19.3	151.96 km 94.42 Mi	36 05 36 80 13 53	0.13 28.0	8.49 280	5.96 BLED830616AB
213B AP213 * Summersville	AP VN WV	-5.7 Mountain State Christian A	-9.4	314.5 134.5	114.85 km 71.36 Mi	38 06 41 80 35 55	11.00 221.9*	67.19 1237	45.35 BPED910524MA
FCC Comment > Vertical Polarization Only-Amended 910927 > Reference HAAT at 314.5 degrees = 352.4 M, Pwr.= 10 kW, Pro. contour = 53.4 km, Int. contour = 78.95 km									
213B WJYJ Fredericksburg	LI CN VA	91.4 Christian Educational Radi	90.1	64.1 244.1	206.25 km 128.16 Mi	38 11 48 77 33 45	18.50 171.0	67.77 243	45.87 BLED830603AD
214B WMRA.C Harrisonburg	CP CN VA	80.4 Bd. of Visitors James Madi	80.2	25.8 205.8	145.24 km 90.25 Mi	38 33 50 78 57 00	7.50 319.0	17.80 853	48.68 BPED910116IA
214C2 CP214 Durham	CP DCN NC	95.0 North Carolina Central Uni	94.5	156.5 336.5	160.54 km 99.75 Mi	36 03 32 78 57 13	50.00 132.0	18.48 268	49.70 BPED890313MY
214A WUVTFM Blacksburg	LI CN VA	15.6 Va Polytechnic Institute &	35.2	254.7 74.7	67.91 km 42.20 Mi	37 13 28 80 24 30	3.00 46.0	5.18 666	16.40 BLED800508AJ
214B WMRA Harrisonburg	LI DCN VA	77.7 Bd. of Visitors James Madi	76.4	25.9 205.9	145.00 km 90.10 Mi	38 33 40 78 56 56	24.50 216.0	20.17 735	52.24 BLED860327KC
215A WQFS Greensboro	LI CN NC	95.9 Trustees of Guilford Colle	123.6	187.8 7.8	144.67 km 89.89 Mi	36 05 39 79 53 21	1.90 61.0	1.70 314	16.95 BLED811228AG
215C3 WPIR.C Bluefield	CP DEN WV	85.7 Positive Alternative Radio	99.6	263.9 83.9	134.53 km 83.59 Mi	37 15 26 81 10 43	0.74 336.0	1.76 1125	30.83 BPED911104JN
i.f. RELATIONSHIPS:									
265A WIQOFM Covington	LI CN VA	15.0 R Wkey, Inc.	35.6 M	326.6 146.6	50.62 km 31.45 Mi	37 46 00 79 59 05	3.00 -64.0	3.84 468	13.22 BLH790423AM

- Nearest CH 6 Grade B =WVVA at 34.03 km

* Uses actual antenna radial HAAT and power toward reference

** Liberty University has amended to channel 215.

Predicted Signal Contours:

37 23 09 - VISION COMMUNICATIONS, INCORPORATED - WRXT
79 40 10 - ROANOKE, VIRGINIA

ERP = 5.5 kW, 7.404 dBk FM - 2-6 Tables

Radial	HAAT	kW	dBk	Field	60 dBu.5	40 dBu.1	54 dBu.1	80 dBu.1	100 dBu.1	68.8 dBu.1
0 Degs.	312.8M	0.998	-0.008	0.426	31.9	87.1	48.2	10.4	2.1	20.7
5 Degs.	275.9M	1.041	0.173	0.435	30.4	84.0	45.5	9.9	2.1	19.6
10 Degs.	244.8M	1.144	0.583	0.456	29.4	82.4	44.0	9.5	2.2	18.9
15 Degs.	248.7M	1.315	1.190	0.489	30.5	84.6	45.9	10.0	2.3	19.8
20 Degs.	207.7M	1.568	1.954	0.534	29.2	82.5	43.7	9.5	2.4	18.8
25 Degs.	192.0M	1.921	2.835	0.591	29.5	83.4	44.0	9.6	2.5	19.1
30 Degs.	155.1M	2.396	3.795	0.660	28.1	81.5	41.9	9.0	2.5	17.1
35 Degs.	75.3M	3.004	4.777	0.739	20.7	70.6	31.3	6.6	2.1	12.8
40 Degs.	36.9M	3.617	5.584	0.811	15.4	61.1	23.4	4.8	1.6	9.3
45 Degs.	14.1M	4.173	6.204	0.871	14.7	60.2	22.0	4.5	1.6	8.8
50 Degs.	107.1M	4.655	6.679	0.920	27.6	83.9	41.9	8.8	2.7	16.7
55 Degs.	234.1M	5.037	7.022	0.957	39.6	102.1	59.2	13.6	3.6	27.4
60 Degs.	280.5M	5.315	7.255	0.983	43.1	107.6	64.2	15.0	3.8	30.1
65 Degs.	325.3M	5.467	7.378	0.997	46.2	113.6	68.9	16.1	4.0	32.3
70 Degs.	369.9M	5.500	7.404	1.000	48.9	120.3	73.1	17.0	4.2	34.6
75 Degs.	400.9M	5.500	7.404	1.000	50.6	123.9	75.8	18.7	4.3	36.2
80 Degs.	419.9M	5.500	7.404	1.000	51.6	126.1	77.5	19.3	4.4	37.2
85 Degs.	435.2M	5.500	7.404	1.000	52.5	127.9	78.9	19.8	4.4	38.0
90 Degs.	437.1M	5.500	7.404	1.000	52.6	128.1	79.1	19.8	4.4	38.1
95 Degs.	425.9M	5.500	7.404	1.000	52.0	126.8	78.1	19.5	4.4	37.6
100 Degs.	424.2M	5.500	7.404	1.000	51.9	126.6	77.9	19.4	4.4	37.5
105 Degs.	430.7M	5.500	7.404	1.000	52.2	127.3	78.5	19.6	4.4	37.8
110 Degs.	432.5M	5.500	7.404	1.000	52.3	127.5	78.7	19.7	4.4	37.9
115 Degs.	428.5M	5.500	7.404	1.000	52.1	127.1	78.3	19.6	4.4	37.7
120 Degs.	424.0M	5.500	7.404	1.000	51.9	126.6	77.9	19.4	4.4	37.5
125 Degs.	423.1M	5.500	7.404	1.000	51.8	126.5	77.8	19.4	4.4	37.4
130 Degs.	436.8M	5.500	7.404	1.000	52.6	128.0	79.0	19.8	4.4	38.1
135 Degs.	454.4M	5.154	7.121	0.968	52.9	128.9	79.7	19.9	4.3	38.4
140 Degs.	469.0M	4.396	6.430	0.894	52.3	127.9	78.7	19.2	4.0	37.5
145 Degs.	473.8M	3.502	5.444	0.798	50.4	124.5	76.1	18.0	3.7	35.5
150 Degs.	478.8M	2.788	4.453	0.712	48.6	121.2	73.5	16.9	3.3	33.7
155 Degs.	461.4M	2.218	3.459	0.635	45.3	115.3	69.0	15.2	3.1	31.5
160 Degs.	447.5M	1.768	2.475	0.567	42.5	110.0	65.0	14.2	2.8	29.5
165 Degs.	449.8M	1.408	1.487	0.506	40.6	106.6	62.3	13.5	2.5	28.0
170 Degs.	461.8M	1.124	0.506	0.452	39.2	104.3	60.5	12.8	2.3	26.8
175 Degs.	451.8M	0.898	-0.469	0.404	36.9	99.8	57.0	12.0	2.0	25.0
180 Degs.	447.1M	0.717	-1.446	0.361	35.0	96.1	54.1	11.2	1.8	23.4
185 Degs.	451.8M	0.599	-2.226	0.330	33.8	94.1	52.3	10.6	1.6	22.4
190 Degs.	440.2M	0.625	-2.044	0.337	33.7	93.6	52.1	10.7	1.6	22.4
195 Degs.	409.8M	0.681	-1.666	0.352	33.2	91.8	51.1	10.7	1.7	21.9
200 Degs.	429.4M	0.773	-1.116	0.375	34.9	95.5	53.8	11.3	1.9	23.4
205 Degs.	432.5M	0.911	-0.404	0.407	36.3	98.1	55.9	11.8	2.1	24.5
210 Degs.	415.9M	1.104	0.429	0.448	37.1	99.2	57.0	12.3	2.3	25.2
215 Degs.	406.0M	1.359	1.331	0.497	38.4	101.2	58.7	12.8	2.5	26.2
220 Degs.	388.5M	1.694	2.289	0.555	39.5	102.6	60.1	13.3	2.7	27.0
225 Degs.	355.5M	2.128	3.279	0.622	39.8	102.4	60.3	13.5	2.9	27.2
230 Degs.	298.9M	2.672	4.268	0.697	38.5	99.5	57.8	13.2	3.0	26.3
235 Degs.	241.5M	3.355	5.257	0.781	36.9	96.8	55.4	12.5	3.2	25.2
240 Degs.	243.5M	4.211	6.244	0.875	38.8	100.4	58.1	13.3	3.4	26.8
245 Degs.	255.0M	5.101	7.076	0.963	41.1	104.5	61.3	14.2	3.7	28.6
250 Degs.	311.9M	5.500	7.404	1.000	45.4	111.6	67.6	15.8	4.0	31.7

Predicted Signal Contours:

37 23 09 - WRXT ROANOKE ...continued
79 40 10 -

ERP = 5.5 kW, 7.404 dBk FM - 2-6 Tables

Radial	HAAT	kW	dBk	Field	60 dBu.5	40 dBu.1	54 dBu.1	80 dBu.1	100 dBu.1	68.8 dBu.1
255 Degs.	331.0M	5.500	7.404	1.000	46.6	114.6	69.5	16.2	4.1	32.6
260 Degs.	325.8M	5.500	7.404	1.000	46.3	113.8	69.0	16.1	4.0	32.4
265 Degs.	338.5M	5.500	7.404	1.000	47.1	115.8	70.2	16.4	4.1	33.0
270 Degs.	344.0M	5.467	7.378	0.997	47.4	116.5	70.7	16.5	4.1	33.2
275 Degs.	318.7M	5.304	7.246	0.982	45.5	112.1	67.8	15.8	4.0	31.8
280 Degs.	260.7M	5.006	6.995	0.954	41.3	104.7	61.6	14.3	3.7	28.7
285 Degs.	267.3M	4.595	6.623	0.914	41.0	104.1	61.2	14.2	3.6	28.5
290 Degs.	303.2M	4.087	6.114	0.862	42.3	106.1	63.2	14.6	3.5	29.4
295 Degs.	328.0M	3.494	5.433	0.797	42.4	106.8	63.7	14.6	3.4	29.4
300 Degs.	324.3M	2.851	4.550	0.720	40.5	103.2	60.9	13.9	3.2	27.9
305 Degs.	335.9M	2.352	3.715	0.654	39.6	101.7	59.7	13.5	3.0	27.1
310 Degs.	351.6M	1.993	2.996	0.602	39.1	100.9	59.2	13.2	2.8	26.6
315 Degs.	351.7M	1.706	2.321	0.557	37.8	98.6	57.4	12.7	2.7	25.6
320 Degs.	364.7M	1.476	1.690	0.518	37.3	97.8	56.7	12.5	2.5	25.1
325 Degs.	365.4M	1.299	1.136	0.486	36.4	96.1	55.3	12.1	2.4	24.3
330 Degs.	369.7M	1.169	0.678	0.461	35.7	95.0	54.4	11.8	2.3	23.8
335 Degs.	378.1M	1.079	0.332	0.443	35.5	94.8	54.1	11.7	2.2	23.6
340 Degs.	371.4M	1.022	0.093	0.431	34.8	93.3	53.0	11.4	2.1	23.0
345 Degs.	358.6M	0.998	-0.008	0.426	34.1	91.7	51.8	11.2	2.1	22.4
350 Degs.	356.3M	0.998	-0.008	0.426	34.0	91.5	51.6	11.1	2.1	22.3
355 Degs.	345.4M	0.998	-0.008	0.426	33.5	90.4	50.8	11.0	2.1	21.9

Ant. COR= 745.0M AMSL

Predicted Signal Contours:

36 42 16 - WRXT - ROANOKE, VIRGINIA
79 50 06 - CONTOURS OF WPBI MARTINSVILLE, VA

ERP = 4.3 kW, 6.335 dBk FM - 2-6 Tables

Radial	HAAT	kW	dBk	Field	60 dBu.5	54 dBu.1
270 Degs.	122.9M	4.214	6.247	0.990	28.8	43.6
275 Degs.	124.4M	4.130	6.159	0.980	28.8	43.6
280 Degs.	133.5M	3.922	5.935	0.955	29.3	44.3
285 Degs.	137.3M	3.881	5.889	0.950	29.6	44.7
290 Degs.	140.1M	3.881	5.889	0.950	29.9	45.1
295 Degs.	134.8M	3.881	5.889	0.950	29.4	44.4
300 Degs.	124.8M	3.881	5.889	0.950	28.4	43.0
305 Degs.	117.8M	3.881	5.889	0.950	27.7	41.9
310 Degs.	109.6M	3.963	5.980	0.960	26.9	40.6
315 Degs.	103.5M	4.046	6.070	0.970	26.2	39.7
320 Degs.	95.9M	4.130	6.159	0.980	25.3	38.3
325 Degs.	84.8M	4.257	6.291	0.995	24.0	36.1
330 Degs.	79.8M	4.300	6.335	1.000	23.3	35.0
335 Degs.	76.5M	4.300	6.335	1.000	22.8	34.3
340 Degs.	68.9M	4.300	6.335	1.000	21.7	32.6
345 Degs.	62.1M	4.300	6.335	1.000	20.7	31.4
350 Degs.	56.9M	4.300	6.335	1.000	19.9	30.3
355 Degs.	51.0M	4.300	6.335	1.000	18.8	28.9
0 Degs.	57.8M	4.300	6.335	1.000	20.1	30.5
5 Degs.	73.0M	4.130	6.159	0.980	22.1	33.2
10 Degs.	76.9M	3.963	5.980	0.960	22.4	33.7
15 Degs.	80.7M	3.640	5.610	0.920	22.5	33.7
20 Degs.	84.4M	3.255	5.125	0.870	22.4	33.6
25 Degs.	91.4M	2.821	4.504	0.810	22.5	33.8
30 Degs.	90.4M	2.291	3.601	0.730	21.2	32.0
35 Degs.	77.6M	1.817	2.593	0.650	18.5	28.3
40 Degs.	78.2M	1.497	1.752	0.590	17.7	27.1
45 Degs.	96.2M	1.208	0.820	0.530	18.7	28.5
50 Degs.	106.9M	0.991	-0.040	0.480	18.8	28.7
55 Degs.	118.2M	0.795	-0.996	0.430	18.8	28.7
60 Degs.	129.2M	0.654	-1.844	0.390	18.7	28.5
65 Degs.	130.2M	0.527	-2.784	0.350	17.8	27.2
70 Degs.	131.5M	0.413	-3.838	0.310	16.8	25.7
75 Degs.	131.4M	0.337	-4.722	0.280	16.0	24.4
80 Degs.	129.1M	0.291	-5.366	0.260	15.4	23.2
85 Degs.	133.3M	0.248	-6.061	0.240	15.1	22.6
90 Degs.	134.6M	0.208	-6.817	0.220	14.6	21.7

Ant. COR= 393.0M AMSL

Predicted Signal Contours:

37 15 21 - WRXT ROANOKE, VIRGINIA
81 10 55 - CONTOURS OF WVVA-TV BLUEFIELD

ERP = 50.1 kW, 16.998 dBk FM - 2-6 Tables

Radial	HAAT	kW	dBk	Field	68 dBu.5	74 dBu.5	47 dBu.5
20 Degs.	392.4M	50.100	16.998	1.000	53.6	41.0	102.5
25 Degs.	392.9M	50.100	16.998	1.000	53.6	41.0	102.5
30 Degs.	400.5M	50.100	16.998	1.000	54.0	41.3	103.2
35 Degs.	400.7M	50.100	16.998	1.000	54.0	41.4	103.2
40 Degs.	388.3M	50.100	16.998	1.000	53.3	40.8	102.2
45 Degs.	392.7M	50.100	16.998	1.000	53.6	41.0	102.5
50 Degs.	401.1M	50.100	16.998	1.000	54.0	41.4	103.2
55 Degs.	412.7M	50.100	16.998	1.000	54.7	41.9	104.2
60 Degs.	425.7M	50.100	16.998	1.000	55.4	42.5	105.3
65 Degs.	373.7M	50.100	16.998	1.000	52.5	40.2	101.0
70 Degs.	275.8M	50.100	16.998	1.000	46.3	35.0	94.0
75 Degs.	306.7M	50.100	16.998	1.000	48.4	36.6	96.4
80 Degs.	369.6M	50.100	16.998	1.000	52.3	40.0	100.7
85 Degs.	429.2M	50.100	16.998	1.000	55.6	42.7	105.6
90 Degs.	495.3M	50.100	16.998	1.000	59.7	46.2	111.5
95 Degs.	405.5M	50.100	16.998	1.000	54.3	41.6	103.6
100 Degs.	375.6M	50.100	16.998	1.000	52.6	40.3	101.1
105 Degs.	382.0M	50.100	16.998	1.000	53.0	40.5	101.6
110 Degs.	387.7M	50.100	16.998	1.000	53.3	40.8	102.1
115 Degs.	389.8M	50.100	16.998	1.000	53.4	40.9	102.3
120 Degs.	391.7M	50.100	16.998	1.000	53.5	41.0	102.4
125 Degs.	376.9M	50.100	16.998	1.000	52.7	40.3	101.2
130 Degs.	373.5M	50.100	16.998	1.000	52.5	40.2	100.9
135 Degs.	366.9M	50.100	16.998	1.000	52.1	39.8	100.4
140 Degs.	375.4M	50.100	16.998	1.000	52.6	40.2	101.1
145 Degs.	365.0M	50.100	16.998	1.000	52.0	39.8	100.3
150 Degs.	338.1M	50.100	16.998	1.000	50.4	38.4	98.4
155 Degs.	354.5M	50.100	16.998	1.000	51.4	39.2	99.5
160 Degs.	377.6M	50.100	16.998	1.000	52.8	40.3	101.3
165 Degs.	374.4M	50.100	16.998	1.000	52.6	40.2	101.0
170 Degs.	354.9M	50.100	16.998	1.000	51.4	39.3	99.6
175 Degs.	321.0M	50.100	16.998	1.000	49.3	37.4	97.3

Ave. HAAT= 338.0M, Ant. COR=1161.0M AMSL